PATENT
Docket No. 220.00040101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	Eric T. Kool	Group Art Unit:	1623
Serial No.:	09/483,337	Examiner:	Lawrence Crane
Confirmation No.:	8254		
Filed:	January 14, 2000		

For: COMPOSITIONS AND METHODS FOR NONENZYMATIC LIGATION OF OLIGONUCLEOTIDES AND DETECTION OF GENETIC POLYMORPHISMS

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Per M.P.E.P. § 609, the information cited in the present Supplemental Information Disclosure Statement shall not be construed to be an admission that the information is, or is considered to be, material to patentability. Consideration of each of the documents listed on the attached 1449 form(s) is respectfully requested. Pursuant to the provisions of M.P.E.P. §609, Applicant further requests that a copy of the 1449 form(s), marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

Since this Supplemental Information Disclosure Statement is submitted after the receipt of an Office Action in the above-identified patent application, please charge Deposit Account No. 13-4895 in the amount of $180 under 37 C.F.R. §§1.97(c) and 1.17(p). Please charge any additional fees or credit any overpayment to Deposit Account No. 13-4895.

The Examiner is invited to contact Applicant's Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

CERTIFICATE UNDER 37 C.F.R. 1.10:

The undersigned hereby certifies that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated below and is addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

"Express Mail" mailing label number: EV 201893305 US
Date of Deposit: Aug 12, 2005
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Aug 12, 2005
Date

Respectfully submitted for

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INFORMATION DISCLOSURE STATEMENT	**Atty. Docket No.:** 220.00040101	**Serial No.:** 09/483,337
	Applicant(s): ERIC T. KOOL	**Confirmation No.:** 8254
	Application Filing Date: 01/14/00	**Group:** 1623
	Information Disclosure Statement mailed:	August 12, 2005

U.S. PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	✔	2004/0259102 A1	12/23/04	Kool			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Copy Enclosed	Document Description
	✔	Abe et al., "Destabilizing Universal Linkers for Signal Amplification in Self-Ligating Probes for RNA," *Journ. Am. Chem. Soc.*, 2004, 126:13980-13986
	✔	Du et al., "Gapped DNA and Cyclization of Short DNA Fragments," *Biophysical Journal*, 2005, 88:4137-4145
	✔	Hagerman, P.J. "Flexibility of DNA," *Am. Rev. Biophys. Chem.* 1988 17:265-286
	✔	Ihara et al., "Photochemical Ligation of DNA Conjugates through Anthracene Cyclodimer Formation and its Fidelity to the Template Sequences," *Journ. Am. Chemc. Soc.*, 2004, 126:8880-8881
	✔	Jain et al., "Enzymatic behavior by Intercalating Molecules in a Template-Derived Ligation Reaction," *Angew Chem. Int. Ed.* 2004, 43:2004-2008
	✔	John et al., "Mechanics of DNA Flexibility Visulaized by Selective 2-Amine Acylation at Nucleotide Bulges," *J. Mol. Biol.* 2004, 337:611-619
	✔	Kahn et al., "Detection of localized DNA Flexibility," Nature, 368:163-166 (March 10, 1994)
	✔	Mills et al., "Electrophoretic Evidence that Single-Stranded Regions of One or More Nucleotides Dramatically Increase the Flexibility of DNA," *Biochemistry*, 1994, 33:1797-1803

EXAMINER	**Date Considered**

***Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.**

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	✔	Oxford Dictionary of Biochemistry and Molecular Biology, Oxford University Press, New York, 1997. Definitions of "hairpin" and "bulge loop"
	✔	Roll et al., "Conformations of Nicked and Gapped DNA Structures by NMR and Molecular Dynamic Simulations in Water," *Biochemistry*, 1998, 37:4059-4070
	✔	Sando et al., "Quenched Auto-Ligating DNAs: Multicolor Identification of Nucleic Acids at Single Nucleotide Resolution," *J. Am. Chem. Soc.*, 2004, 126:1081-1087
	✔	Zhang et al., "High-throughput approach for detection of DNA bending and flexibility based on cyclization," *Proc. Natl. Acad. Sci., U.S.A.* 100(6), 2003, Article retrieved from the internet http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=152263 on 07/21/05

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